

PROJECT REPORT / ESTIMATES FOR PROVIDING INTERNAL SERVICES e.g. WATER SUPPLY, FIRE, SEWERAGE & STORM WATER DRAINAGE ETC. IN RESPECT OF PROPOSED AFFORDABLE PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA (DDJAY-2016) OVER AN AREA MEASURING 13.75 ACRES SITUATED IN SECTOR - 70, SONIPAT, HARYANA BEING DEVELOPED BY SUREPASS INFRA LLP

Sonipat is located at 28.98°N 77.02°E. The district headquarters are situated in Sonipat. Other smaller towns around the town include Gohana, Ganaur, Mundlana, Kharkhoda and Rai. The total area of Sonipat district is 2,260 km² and its population is 1,064,000. Sonipat is bordered by the states of Delhi and Uttar Pradesh as well as the districts of Rohtak, Jind and Panipat. The River Yamuna runs along the eastern boundary of the district.

PROPOSED AFFORDABLE PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA (DDJAY-2016) OVER AN AREA MEASURING 13.75 ACRES SITUATED IN SECTOR - 70, SONIPAT, HARYANA BEING DEVELOPED BY SUREPASS INFRA LLP

1 Water Supply

The source of water supply shall be HUDA water supply connection. It has been proposed to construct underground tanks of capacity as per attached details for domestic and other purpose. The underground tanks will be filled up from the riser and then pumped to the overhead water tanks of each plot.

i.) Source

The source of water supply in this area is tubewells as the underground water is sweet and fit for human consumption, moreover, the water is available at reasonable depth. The average yield of tubewell with 60'-80' strainer will be about 26000 lph per hour. The recharging of underground water table in this belt is stated to be good. However still we shall resort to rain water harvesting system to keep up the recharging system. The number of tubewells required for the above area has been worked out to 02 Nos and the tubewells will be bored in tune with growth of demand to avoid absence of the tubewells.

ii.) Design

The scheme has been designed for population of 2754 persons in 13.75 Acre. The rate of water supply per head per day has been taken assumed as 172.5 litres per head per day as per HUDA norms. In addition to above necessary provision of water for Community building, Commercial building, parks etc. have been taken into account for calculating the maximum number of tubewell water required.

iii.) Pumping Equipments

It has been proposed to install pumping set as described with standby of equal capacity. The provision for standby generating set has been provided in case of any electricity failure. Generator will be provided separately or added to the capacity of main generator.

iv.) Under Ground Storage

Underground storage tank provision has been made, which caters for the present and a lot of future requirement as well as fire fighting requirement. The water for domestic water compartment shall overflow from the fire compartment so that the water in the fire compartment also remains fresh.

v.) **Boosting Station**

The boosting station is being planned near UGSR catering to the above requirement.

vi.) **Distribution System**

The distribution systems for this development are has been designed to supply @ 172.5 Litres per head per day @ 3 times the average rate of flow on 'Hazen Willima' formula with C-100. Necessary provision for laying D.I. pipes only conforming to relevant IS standards along with valves and specials has been made in this estimate. The minimum terminal head at any point in this system will be about 21.00 metres so that it can serve the S+4 stories construction envisaged in the plan. Minimum pipe diameters for distribution are kept as 100 dia.

vii.) **Rising Mains**

Rising mains from HUDA water main on sector road to water works have also been designed and provision for D.I. pipe line (dia as/design) has been made in this estimate.

2 **Sewerage**

This scheme is designed for sewer connecting to the proposed sewage treatment plant. The sewerage system has been marked on the respective plans.

The sewer lines have been designed for 3 times average DWR in relation to the water supply demand assuming that 80% fo the domestic water supply shall find its way into the proposed sewer SW pipe sewers have been proposed designed to run half full. The sewers have been designed on 0.75 mtr. per second velocity ie. Self cleansing velocity. Necessary provisions for laying SW pipes manholes etc. has been made in this estimate.

Necessary design statement for entire sewerage system has been prepared and attached with estimate.

3 **Storm Water Drainage**

The storm water drain is being designed to carry 35 mm rain fall per hour. Also suitable provisions are contemplated in our scheme to ensure better recharging of under ground water table in the area.RCC NP₃ pipe drain with minimum 400 mm dia is proposed in this area.

4 **Roads**

Cost of road has been taken in the estimate.

5 **Street Lighting**

Provision for street lighting on surrounding area has been made.

5 **Horticulture**

Estimates and details of plantation, landscaping, signage etc. has been included.

7 **Specifications :**

The work will be carried out in accordance with the standard specifications of PH as laid down by the HUDA/Haryana Government.

8 **Rates**

Estimates for providing services in this site has been prepared on the recent HUDA rates.

9 **Cost**

The total cost of development in this Project including various PH & B & R services works out to **Rs. 1447.355 lacs** which includes 3% contingency and PE charges and 49% departmental charges also.

The cost per gross acre for this phase works out to **Rs. 105.26 Lacs/acre** which covers the provision of services like water supply, sewerage, storm water drainage, roads, street lighting and plantations including plantations maintenance thereof as well as future expansion whatsoever indicated.

M/s SUREPASS INFRA LLP

Authorised Signatory

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DESIGN CALCULATION

1 Plots				
Total No. of Plots				208 Nos.
Population per plot				18.0 persons
Therefore population				3744 persons
		SAY		3744 persons
Water requirement for plots (General)		@		172.50 Lpd.
			Domestic @ 70 %	Flushing @ 35 %
Water requirement for plots (General)		@	113.00	59.50 Lpd.
			423072	222768 Lpd.
		or	423.07	222.77 Kld.
2 Visitors @ 10%				375.00 persons
Water requirement		@		15.00 Lpd.
			Domestic	Flushing
Water requirement		@	5.00	10.00 Lpd.
			1875	3750 Lpd.
		or	1.88	3.75 Kld.
3 COMMERCIAL	1901.620		sq.m	
	@			3 sq.m/per
Total Population	634			
Staff @ 10%	63		-	- Person
Visitors @ 90%	570		-	- Person
Per Person Water Requirement			Domestic	Flushing
Staff	45.00		25.00	20.00 Lpd.
Visitors	15.00		5.00	10.00 Lpd.
Daily Water Requirement				
Staff	2852.43		1584.68	1267.75 Lpd.
Visitors	8557.29		2852.43	5704.86 Lpd.
			4.44	6.97 Kld.

4	COMMERCIAL	0.000	sq.m	
		@		3 sq.m/per
	Total Population	0		
	Staff @ 10%	0	-	- Person
	Visitors @ 90%	0	-	- Person
	Per Person Water Requirement		Domestic	Flushing
	Staff	45.00	25.00	20.00 Lpd.
	Visitors	15.00	5.00	10.00 Lpd.
	Daily Water Requirement			
	Staff	0.00	0.00	0.00 Lpd.
	Visitors	0.00	0.00	0.00 Lpd.
			0.00	0.00 Kld.
5	COMMUNITY	5563.25	sq.m	
		@		1.8 sq.m/per
	Population	3091		
	Staff @ 10%	309	-	- Person
	Visitors @ 90%	2782	-	- Person
	Per Person Water Requirement		Domestic	Flushing
	Staff	45.00	25.00	20.00 Lpd.
	Visitors	15.00	5.00	10.00 Lpd.
	Daily Water Requirement			
	Staff	13908.13	7726.74	6181.39 Lpd.
	Visitors	41724.38	13908.13	27816.25 Lpd.
			21.63	34.00 Kld.
6	Filter Backwash (Assumed Lumsum)	@	15.00	0.00 Kld.
7	Total water Requirement (1+2+3+4+5)	Total	466.02	267.49 Kld.
8	GREEN AREA	4236.16 Sq.m		
	Daily water requirement	@	-	4236.162 Sqm.
			-	6.00 Ltr./Sqm.
			-	25416.97 Lpd.
			-	25416.97 Lpd.
			0.00	25.42 Kld.
9	ROAD AREA	14747.67 Sq.m		
	Daily water requirement	@	-	14747.670 Sqm.
			-	3.00 Ltr./Sqm.
			-	44243.01 Lpd.
			-	44243.01 Lpd.
			0.00	44.24 Kld.
I	Total Daily Requirement			
	a) For Domestic+Flushing use (1+2+3+4)		466.02	267.49 Kld.
	b) Green Area		0.00	25.42 Kld.
	c) Road Area		0.00	44.24 Kld.
	Total Daily Requirement		466.02	337.15 Kld.
		SAY	470.00	340.00 Kld.

II Tubewell			
Assuming working hours of tubewells			10 Hours
Assuming discharge/hour of each tubewell			20 KL/Hours
Total domestic demand			466.02 Kld.
No. of tubewells required	$466.02 / 20 / 10$		2.33
	Say		3.00 Nos.
III Pumping machinery for tubewell			
Gross working load		=	45.00 Mtr.
Average fall in SL		=	3.05 Mtr.
Depression head		=	6.10 Mtr.
Friction loss in main		=	2.50 Mtr.
		=	56.65 Mtr.
	Say	=	60.00 Mtr.
BHP = $26000 \times 60 \times 1 / 60 / 60 / 75 / 0.6$		=	9.63 HP
With 60% efficiency	Say		10.00 HP
IV Underground Tank			
Daily requirement for domestic use		=	466.02 Kld.
Capacity of under ground tank			
16 hours storage	$466.02 \times 16 / 24$		310.68 Kld.
	Say	=	340.00 Kld.
Daily requirement for Flushing use		=	337.15 Kld.
Capacity of under ground tank			
16 hours storage	$337.15 \times 16 / 24$		224.77 Kld.
	Say	=	230.00 Kld.
Fire Tank Capacity as per SP35 IS Code $100 \sqrt{P} = 100 \sqrt{1.566} \times 1/2$		=	96.75 KLD
	Say	=	100.00 KLD
			TOTAL (Dom.+ Fire)
			440.00 KLD

It is proposed to provide under ground tank of capacity **440 KL** which also includes **100 KL** capacity for fire fighting.

Tanks will have six compartments, two for fire, two for raw and the other two for domestic use. The water first enters the fire compartment, then over flows to the raw use compartment so that the water in the fire compartment shall remain fresh.

It is proposed to provide the under ground tank of following capacity :

Capacity of Fire Water Tank-01	50.00 Kld.
Capacity of Fire Water Tank-02	50.00 Kld.
Capacity of Raw Water Tank-01	85.00 Kld.
Capacity of Raw Water Tank-02	85.00 Kld.
Capacity of Domestic Water Tank-01	85.00 Kld.
Capacity of Domestic Water Tank-02	85.00 Kld.
Capacity of Flushing Water Tank-01 (Location at STP)	115.00 Kld.
Capacity of Flushing Water Tank-02 (Location at STP)	115.00 Kld.
	UGT

V BOOSTING MACHINERY

UG. Tank

Daily requirement for domestic use	=	451.02 Kld.
Assuming 6 hours pumping	4 pumps (with one standby)	
Discharge/hour	$451.02 / 6 / 3 =$	25.06 KL/Hours
Head of pump		
i) Suction lifts	=	0.0 Mtr.
ii) Friction loss in M<main & specials	=	5.0 Mtr.
iii) Clear head	=	35.0 Mtr.
iv) Residual head	=	5.0 Mtr.
	=	45.0 Mtr.
BHP of motor		6.96 HP
	=	7.0 HP
Daily requirement for flushing use	=	311.73 Kld.
Assuming 8 hours pumping	1 pump (with one standby)	
Discharge/hour	$311.73 / 6 / 2 =$	25.98 KL/Hours
Head of pump		
i) Suction lifts	=	0.0 Mtr.
ii) Friction loss in M<main & specials	=	5.0 Mtr.
iii) Clear head	=	35.0 Mtr.
iv) Residual head	=	5.0 Mtr.
	=	45.0 Mtr.
BHP of motor		7.2 HP
	=	8.0 HP

Gen Set	Nos.	HP	
Pumps for UG. Tank (Domestic)	3	7.0	21 HP
Pumps for UG. Tank (Flushing)	2	8.0	16 HP
Tubewell	3	10.0	30 HP
Lighting			10 HP
			77 HP
	or	77 x0.746x1.5	86.16 KVA
		Say	90.00 KVA
VI Sewage Treatment Plant Capacity (STP.)			
Gross Domestic+Flushing water requirment / day			733.51 Kld.
Sewage flow (80% domectic)			586.81 Kld.
Proposed STP. Capacity			590.00 Kld.
			STP

Estimate for Providing in Internal Development works for

PROPOSED AFFORDABLE PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA (DDJAY-2016) OVER AN AREA MEASURING 13.75 ACRES SITUATED IN SECTOR - 70, SONIPAT, HARYANA BEING DEVELOPED BY SUREPASS INFRA LLP

Description	Amount (Lacs.)
Sub Work - I Water Supply Scheme	245.53
Sub Work - II Sewerage Scheme	164.88
Sub Work - III Storm Water Drainage Scheme	101.45
Sub Work - IV Roads & Footpath	395.64
Sub Work - V Street Lighting	52.76
Sub Work - VI - Horticulture	12.05
Sub Work - VII - Maintenance of Services for 10 years including resurfacing of roads after 1st 5 years & II phase i.e. 10 years of maintenance (as per HUDA norms)	475.05

Total	1447.36
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(RUPEES ELEVEN CRORES SIXTY NINE LACS FIFTY TWO THOUSAND ONLY)

COST PER ACRE

105.26 Lacs

M/s SUREPASS INFRA LLP

Authorized Signatory

FINAL ABSTRACT OF REVISED COST		
Description		Amount (Lacs.)
Sub Head - (I) Head Works		56.80
Sub Head - (II) Pumping Machinery		30.60
Sub Head - (III) Distribution System (Domestic + Flushing)		65.41
Sub Head - (IV) Irrigation Scheme		4.22
Sub Head - (V) Fire Scheme		2.96
	Total	159.98
Add 3% Contingencies		4.80
	Total	164.78
Add 49% Departmental Charges		80.74
	Grand Total	245.53
(CO to final abstract of cost)	Say	245.53

Sub Work I Sub Head No. I				Water Supply Head Works	
S. No.	Description	Unit	Qty	Rate (Rs.)	Amount Rs. (lacs)
1	Boring and installing 510 mm i/d tubewells with reverse/direct rotary rig complete with pipe strainer to a depth of about 80 m. complete.	Nos.	3	1000000.00	30.00
2	Constructing pump chambers as per standard design of PWD PH/HUDA of size 1.50x1.50 m.	Nos.	3	100000.00	3.00
3	Construction of boosting chambers of suitable size along with under ground tank & pumping machinery and generating set etc. complete in all respects.				
	Details of boosting station				
i)	construction of boosting chambers	Nos.	1	300000.00	3.00
ii)	construction of UG tank (Dom.+ Fire)	KL	440	4500.00	19.80
4	Provision for carriage of material and other unforeseen items.	LS	-	-	0.50
5	Provision of special for tube wells & rising main to UGT.	LS	-	-	0.50
	(C.O. to abstract of cost of Sub-work No.I)				56.80 Lacs
				Say	56.80 Lacs

Sub Work I		Water Supply			
Sub Head No. II		Pumping Machinery			
S. No.	Description	Unit	Qty	Rate (Rs.)	Amount (in Lakhs)
1	Providing and installing electricity driven electro or submersible pumping set capable of delivering about 26 KL water per hour against a total head of 60 M complete with motor and other accessories.	Nos.	3	200000.00	6.00
2	Providing & installing electricity driven pumping set capable of delivering 400 LPM of water against a total head of 35 m complete with motor and other accessories (For Domestic - 6.0 HP).	Nos.	4	145000.00	5.80
3	Providing & installing electricity driven pumping set capable of delivering 320 LPM of water against a total head of 45 m complete with motor and other accessories (For Flushing - 7.0 HP).	Nos.	3	160000.00	4.80
4	Provision for diesel engine generator set each for standby Arrangements for booster pump complete with gear haed arrangements of following capacities.				
i)	90 KVA	KVA	90	10000.00	9.00
5	Provision for cheap pressure type chlorination plant complete.	Nos.	1	100000.00	1.00
6	Provision for making foundations & erection of pumping machinery.	LS	-	-	1.00
7	Provision for pipes, valves & specials inside the pump chamber.	LS	-	-	1.00
8	Provision for electric services connection including electric fittings for tubewells chambers complete including cost of transformer.	LS	-	-	1.00
9	Provision for carriage for materials and other unforeseen items.	LS	-	-	1.00
	(C.O. to abstract of cost of Sub-work No.I)			Total	30.60
				Say	30.60

Sub Work I Sub Head No. III		Water Supply Distribution System/Rising Main			
S. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Providing, laying, jointing & testing D.I. K-7 pipes including cost of excavation complete as per ISI marked. (For Domestic, Flushing & Tube Well water supply line)				
i)	100 mm dia	M	4652	1250.00	5815000.00
2	Providing, fixing & Testing butterfly valves including cost of complete in all respects.				
i)	100 mm i/d	Nos.	16	12000.00	192000.00
3	Providing, fixing & Testing Non Return valves (NRV) including cost of complete in all respects.				
i)	100 mm i/d	Nos.	2	14000.00	28000.00
4	Providing and fixing air valves and scour valves including cost of complete in all respects.				
		Nos.	8	10000.00	80000.00
5	Providing and fixing indicating plates for butterfly valve, air valve etc.				
		Nos.	26	1000.00	26000.00
6	Provision for carriage of material	LS	-	-	100000.00
7	Provision for cutting the roads and making to its original conditions.	LS	-	-	100000.00
8	Making water supply connection.	LS	-	-	100000.00
9	Provision for rising main from HUDA water supply line to UG Tank.				
i)	100 mm dia DI K-7 Pipe	M	80	1250.00	100000.00
	(C.O. to abstract of cost of Sub-work No.I)			Total	6541000.00
				Say	65.41 Lacs

Sub Work I		Water Supply			
Sub Head No. IV		Irrigation Scheme			
S. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Providing, laying, jointing & testing uPVC pipe line confirming to IS 4985 including cost of Excavation etc. complete in all respect. (Note:- For garden hydrants tapoff from flushing water supply line)				
i)	25 OD	M	10	240.00	2400.00
ii)	40 OD	M	12	450.00	5400.00
iii)	75 OD	M	0	750.00	0.00
iv)	90 OD	M	283	1050.00	297150.00
2	Providing and fixing 20 mm PVC RQRC hydrant valve with PVC lid and PVC Keys for hydrant valve complete in all respect.	Nos.	12	3500.00	42000.00
3	Provision for carriage of materials etc. and other unforeseen charges.	LS	-	-	50000.00
4	Provision for cutting of roads & making good to its in original condition.	LS	-	-	25000.00
				Total	421950.00
				Say	4.22 Lacs

Sub Work I				
Sub Head No. V				Fire Scheme
S. No.	Description	Unit	Qty	Amount (Rs.)
1	Providing, laying, jointing & testing M.S. pipes for fire ring main including cost of Fittings & excavation complete (as per ISI marked) in all respect.			
a)	150 mm dia (For fire brigade withdrawl)	M	50	100000.00
3	Providing, fixing & Testing butter fly valve including cost of complete in all respects.			
a)	150 mm dia	Nos.	1	20000.00
4	Providing, fixing & Testing Non Return valves (NRV) including cost of complete in all respects.			
i)	150 mm i/d	Nos.	1	22500.00
5	Providing and fixing Fire Brigade connection.			
i)	2 way withdrawl connection.	Nos.	1	10000.00
5	Provision for cutting of roads and carriage of materials etc. and other unforsean charges.	LS	-	40000.00
6	Provision for indication plates.	Nos.	3	3000.00
7	Provision for carriage of material.	LS	-	50000.00
8	Provision for cutting of roads & making good to its in original condition.	LS	-	50000.00
			Total	295500.00
			Say	2.96 Lacs

Sub Work II		Sewerage Scheme			
S. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Providing, lowering, jointing, cutting RCC NP ₃ / DWC and specials into trenches including cost of excavation, bed concrete lot of manholes complete.				
	i) 200 mm i/d				
a)	Average depth 0.0 m to 1.5 m	M	968	1700.00	1645600.00
b)	Average depth 1.5 m to 4.5 m	M	204	2040.00	416160.00
	i) 250 mm i/d				
a)	Average depth 1.5 m to 4.5 m	M	41	2400.00	98400.00
2	Provision for lighting, watching and temporary diversion of traffic	LS	-	-	100000.00
3	Provision for cutting of roads and carriage of materials etc. and other unforeseen charges.	LS	-	-	100000.00
4	Provision for connection with HUDA.	LS	-	-	100000.00
5	Cost of 590 Kld Sewerage Treatment Plant. (Note: The STP cost is inclusive of civil & electromechanical part)	LS	590.00	14000.00	8260000.00
6	Provision for CI / DI pipe from STP. To Huda Main Line. (Over Flow pipe)				
i)	150 mm dia pipe.	M	15	1575.00	23625.00
					10743785.00
	Add 3% contingencies				322313.55
					11066098.55
	Add 49% Deptt. Charges				5422388.29
				Total	16488486.84
	(C.O. to abstract of cost of Sub-work No. 1)			Say	164.88 Lacs

Sub Work - III		Storm Water Drain			
S. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Providing, lowering, jointing, cutting RCC NP ₃ pipes and specials into trenches including cost of excavation cost of manholes, ventilating chambers etc. complete in all respects.				
i)	400 mm i/d				
a)	Average depth upto 1.5 m	M	0	2500.00	0.00
b)	Average depth 1.5 m to 4.5 m	M	1172	2600.00	3047200.00
ii)	500 mm i/d				
a)	Average depth upto 1.5 m	M	0	3200.00	0.00
b)	Average depth 1.5 m to 4.5 m	M	528	3400.00	1795200.00
2	Provision for Road Gully & Drain.	LS	-	-	300000.00
3	Provision for cutting of roads and carriage of materials etc. and other unforeseen items	LS	-	-	50000.00
4	Provision for disposal arrangements Recharge Pit.	Nos	5	250000.00	1250000.00
5	Provision for lighting, watching and temporary diversion of traffic	LS	-	-	100000.00
6	Provision for connection with HUDA.				
i)	500 mm i/d (Average depth 1.5 m to 4.5 m)	M	20	3400.00	68000.00
					6610400.00
	Add 3% contingencies				198312.00
					6808712.00
	Add 49% Deptt. Charges				3336268.88
				Total	10144980.88
				SAY	101.45 Lacs
	(C.O. to abstract of cost of Sub-work No. 1				

Sub Work IV			Road Work		
S. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Provision for leveling & earth filling as per site condition 13.75 acre @ 150000/acre	Acres	13.7500	150000	2062500.00
2	Construction of road by:- i) Providing GSB 200 mm thick. ii) 250 mm thick W.M.M. stone aggregate. iii) 50 mm thick BDM iv) 30 mm thick BC complete in all respect.	Sq. mtr.	15290.0	1200	18348000.00
3	Provision for making approach and pavement to building block by providing concrete pavement or tiles. Etc.	Sq. mtr.	4587.00	750	3440250.00
4	Provision for parking arrangement.	LS.	-	-	100000.00
5	Provision for kerb stone with complete specification.	mtr.	2798.0	600	1678800.00
6	Provision for Carriage of material	LS.	-	-	50000.00
7	Provision for traffic lighting and guide map/ indicators	LS.	-	-	100000.00
Total					25779550.00
Add 3% contingencies					773386.50
Total					26552936.50
Total					265.53 Lacs
Add 49 % department charges					130.11 Lacs
SAY					395.64 Lacs

Sub Work V			Street Lighting		
S. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Providing street lighting on internal roads as per standard specifications of HVPNL with CFL	per acre	13.7500	250000.00	3437500.00
	Add 3% contingencies				103125.00
				Total	3540625.00
	Add 49% Deptt. Charges				1734906.25
				Total	5275531.00
				SAY	52.76 Lacs

Sub Work VI		Horticulture			
S. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Development of lawn area				
	a) Trenching the ordinary soil upto depth of 60 cm. Including removal & packing of serviceable material & disposing at a lead of 50 M and making up the trenched area to proper level by filling with earth mixed with manure before & after flooding trench with water including cost of imported earth & manure.				
	b) Rough dressing of trenched area.				
	c) Grassing including watering & maintenance of lawns free from weeds & fit for mowing in rows including hedges, shrubs & green belts (as per HUDA Norms)				
	13.75 acres @ Rs. 0.5 lacs.	per acre	13.7500	50000.00	6,87,500
	75 trees @ Rs. 1300/- each				97,500
					785000.00
	Add 3% contingency charges				23550.00
				Total	808550.00
	Add 49% Depts. Charges				396189.50
				Total	1204739.50
				Say	12.05 Lacs

Sub Work VII				Maintenance Charges & Resurfacing of Roads	
S. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Provision for maintenance charges for water supply, sewerage, storm water drainage, roads, street light, horticulture etc. complete including operation & establishments charges as per HUDA norms after completion & resurfacing of roads after 10 years or 1st phase.				
	13.75 acres @ 7.5 lacs per acre	per acre	13.7500	750000.00	10312500
2	Provision for resurfacing & strengthening of road (with 50mm thick BM + 50 mm thick BC) after five years of 1st phase @ 600/- per sqm	Sq. mtr.	15290.0	600	9174000.00
3	Provision for resurfacing & strengthening of road (with 50mm thick BM + 50 mm thick BC) after ten years of 2 nd phase @ 750/- per sqm	Sq. mtr.	15290.0	750	11467500.00
				Total	30954000.00
Add 3% contingency & PE charges					928620.00
				Total	31882620.00
Add 49% Departmental charges					15622483.8
				Total	47505103.8
				say	475.05 Lacs